

## J) Farm Water Quality Management Practices Form

Farm Operation/Business Name \_\_\_\_\_ AW #: \_\_\_\_\_

Pesticide Use Permit #: \_\_\_\_\_

### **Key**

- 3 – YES  
2 – NO, but planned within 3 years  
1 – NO and not planned  
N/A – Not applicable

- Use the Key to determine your level of implementation and planning for the individual management practices.
- Circle the corresponding number next to the management practice.

### **PESTICIDE MANAGEMENT**

- |   |   |   |     |  |
|---|---|---|-----|--|
| 3 | 2 | 1 | N/A | P.1) Is an Integrated Pest Management program established?   |
| 3 | 2 | 1 | N/A | P.2) Are pest populations assessed and pesticides applied based on scouting data, thresholds and/or risk assessment models?                              |
| 3 | 2 | 1 | N/A | P.3) Are introduced or managed biological control agents utilized?   |
| 3 | 2 | 1 | N/A | P.4) Does pesticide selection consider runoff or leaching potential?   |
| 3 | 2 | 1 | N/A | P.5) Does pesticide selection consider toxicity to non-target organisms?   |
| 3 | 2 | 1 | N/A | P.6) Is pesticide application equipment regularly inspected, maintained and calibrated to ensure appropriate application rates and distribution?         |
| 3 | 2 | 1 | N/A | P.7) Is yearly pesticide training provided for all pesticide handlers who apply, load, mix, transport, clean and repair pesticide application equipment? |
| 3 | 2 | 1 | N/A | P.8) Do pesticide storage facilities have concrete pads and curbs for containment of spills?   |
| 3 | 2 | 1 | N/A | P.9) Are pesticide mixing and loading areas located in such a manner to reduce the likelihood of a spill or overflow contaminating a water source?       |
| 3 | 2 | 1 | N/A | P.10) Are production wells on elevated concrete bases upslope of pesticide storage and handling facilities?  |
| 3 | 2 | 1 | N/A | P.11) Does wellhead protection consist of an elevated concrete seal, sump, or buffer area of 100' around the wellhead and a backflow prevention device?  |

### **IRRIGATION WATER MANAGEMENT**

- |   |   |   |     |   |
|---|---|---|-----|---|
| 3 | 2 | 1 | N/A | I.1) Is drip irrigation distribution uniformity maximized and maintained through regular system equipment and system pressure maintenance?  |
| 3 | 2 | 1 | N/A | I.2) Is sprinkler and micro-sprinkler irrigation distribution uniformity maximized and maintained through regular system pressure maintenance and water application during low wind conditions?                                     |
| 3 | 2 | 1 | N/A | I.3) Is furrow and flood irrigation distribution uniformity maximized and maintained by either managing furrow lengths, installing surge irrigation valves, installing irrigation field ditches, or using alternate row irrigation? |
| 3 | 2 | 1 | N/A | I.4) Is your irrigation system design optimized by matching sprinkler nozzle/drip applicator flow rates to the infiltration rate of the soil?   |
| 3 | 2 | 1 | N/A | I.5) Are measured or published evapo-transpiration data (CIMIS) used to determine crop water use?   |
| 3 | 2 | 1 | N/A | I.6) Is the soil water-holding capacity known?  |
| 3 | 2 | 1 | N/A | I.7) Are records kept for each crop irrigated? (Records include the date, amount of each irrigation water applied and the source of water used).  |
| 3 | 2 | 1 | N/A | I.8) Have all irrigators who apply irrigation water and maintain irrigation systems received training?  |
| 3 | 2 | 1 | N/A | I.9) Has an irrigation mobile lab system evaluation been completed and the system been adjusted accordingly?  |

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**EROSION AND SEDIMENT CONTROL MANAGEMENT**

- |   |   |   |     |  |
|---|---|---|-----|--|
| 3 | 2 | 1 | N/A | E.1) Are cover crops used to protect bare soil from erosion during fallow cycles and to build up soil organic matter as a crop rotation?   |
| 3 | 2 | 1 | N/A | E.2) Are hedgerows, trees, and shrubs established along field margins or between field blocks to reduce wind effects and protect slopes from erosion?  |
| 3 | 2 | 1 | N/A | E.3) Are farm access roads located and graded to minimize erosion potential?   |
| 3 | 2 | 1 | N/A | E.4) Are farm access roads protected from concentrated runoff through the use of vegetative material, gravel, and/or mulch?  |
| 3 | 2 | 1 | N/A | E.5) Are ditches and channel banks protected from concentrated flow through the use of grassed waterways, lined channels, and/or diversions?   |
| 3 | 2 | 1 | N/A | E.6) Are field layout and row length designed to minimize erosion potential?   |
| 3 | 2 | 1 | N/A | E.7) Are sediment basins constructed to intercept sediment-laden runoff in locations where erosion is expected and sediment is known to leave the farm?  |
| 3 | 2 | 1 | N/A | E.8) Are water and sediment control basins used in locations where sediment and excess runoff may cause gullies or flooding problems downstream?   |
| 3 | 2 | 1 | N/A | E.9) Are vegetative buffers implemented between cropped areas, along the lower edge of the farm, and along roadways? <i>(This practice is also effective in removing nutrients and pesticides from runoff)</i> |
| 3 | 2 | 1 | N/A | E.10) Where streams cross or border property are riparian buffers established and maintained?  |
| 3 | 2 | 1 | N/A | E.11) Are culverts properly sized and maintained?  |
| 3 | 2 | 1 | N/A | E.12) Are implemented management practices evaluated for effectiveness (i.e photo-point monitoring, water quality testing)?  |

**NUTRIENT MANAGEMENT**

- |   |   |   |     |  |
|---|---|---|-----|--|
| 3 | 2 | 1 | N/A | N.1) Are the crop's nutrient requirements known and are nutrient budgets established and recorded?                                   |
| 3 | 2 | 1 | N/A | N.2) Do you test irrigation water for nitrogen content and incorporate that information into your fertilization program?             |
| 3 | 2 | 1 | N/A | N.3) Is plant tissue analysis used to aid in fertilizer decisions?   |
| 3 | 2 | 1 | N/A | N.4) Do you test your soil for residual nitrogen and incorporate that information into your fertilization program?                   |
| 3 | 2 | 1 | N/A | N.5) If fertigation is used are measures in place to ensure that there is no backflow into wells or other water sources?             |
| 3 | 2 | 1 | N/A | N.6) Do you regularly maintain and calibrate your fertilizer equipment?  |
| 3 | 2 | 1 | N/A | N.7) Do field personnel receive nutrient management training?  |
| 3 | 2 | 1 | N/A | N.8) Do fertilizer storage facilities include concrete pads and curbs for containment of spills and are they protected from weather? |
| 3 | 2 | 1 | N/A | N.9) Is mixing and loading performed on sites with low runoff hazard, over 100' downslope of wells?                                  |

**ADDITIONAL MANAGEMENT PRACTICES**

Are any management practices implemented and/or planned for this farm operation that are not listed above? YES NO  
 If YES, please list below.

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